

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	378	((traction tractive) near5 (limit value threshold)) with (vehicle robot automobile) with (speed velocity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/17 15:12
S2	9830	(bulldozer (mine adj vehicle))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 10:14
S3	23289	((impact collide collision crash) with (intend intentional\$2 purpos\$3 deliberat \$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 10:16
S4	5919	((impact collide collision crash) near3 (intend intentional\$2 purpos\$3 deliberat \$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 10:17
S5	156	S4 and ((turnoff shutoff cutoff ((turn\$3 cut\$4 shut \$4) near1 off)) with (((driv\$3 engine) adj (torque power)) power))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 10:22
S6	0	S5 and S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 10:22

S7	90	S5 and (vehicle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 10:23
S8	1001	S2 with (push\$3 (run\$4 adj against))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 10:57
S9	0	S2 with (robust) same (automat\$3 autonomous unman\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 12:58
S10	4	S2 with (robust)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 12:58
S11	256	S2 with (automat \$3 autonomous unman\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 12:59
S12	83	S11 and (stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 13:20
S13	6	(vehicle min\$3 truck bulldozer) same ((tract\$3 near1 resistance) with (stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 13:45
S14	13	(vehicle min\$3 truck bulldozer) same ((tract\$3 near1 (resistance force)) with (cutoff (cut adj off)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 13:50

S15	3	(vehicle min\$3 truck bulldozer) same ((tract\$3 near1 (resistance force)) with (shutoff turnoff ((shut\$3 turn\$3) adj off)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 13:53
S16	81	(vehicle min\$3 truck bulldozer) same ((tract\$3 near1 (resistance force)) with (stop \$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 13:54
S17	75	S16 not S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 13:54
S18	11924	(vehicle truck ((mine mining) adj vehicle) vacuum robot) with (stuck obstacle barrier stop) with (((run\$4 collid\$3 collision) adj (into against)) push\$3 impact\$3 collid\$3 collision)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 15:30
S19	7	((vehicle truck ((mine mining) adj vehicle) vacuum robot) with (stuck obstacle barrier stop) with (((run\$4 collid\$3 collision) adj (into against)) push\$3 impact\$3 collid\$3 collision)) same (tract\$3 adj (resistance force))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 15:33

S20	5818	((vehicle truck ((mine mining) adj vehicle) vacuum robot) with (stuck obstacle barrier stop) with (((run\$4 push\$3 collid\$3 collision) adj (into against)) push\$3 impact\$3 collid\$3 collision)) same ((driv\$3 adj (force power)) stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 15:38
S21	1221	((vehicle truck ((mine mining) adj vehicle) vacuum robot) with (stuck obstacle barrier stop) with (((run\$4 push\$3 collid\$3 collision) adj (into against)) push\$3 impact\$3 collid\$3 collision)) same ((driv\$3 adj (force power)) stop\$4) same (speed velocity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 15:40
S22	509	((vehicle truck ((mine mining) adj vehicle) vacuum robot) with (stuck obstacle barrier stop) with (((run\$4 push\$3 collid\$3 collision) adj (into against)) push\$3 impact\$3 collid\$3 collision)) same ((driv\$3 adj (force power)) stop\$4) same (speed velocity) same (limit predetermine \$1 greater less ratio)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 15:41

S23	253	((vehicle truck ((mine mining) adj vehicle) vacuum robot) with (stuck obstacle barrier stop) with (((run\$4 collid\$3 collision) adj (into against)) push\$3 impact\$3 collid\$3 collision)) same (tract\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 15:42
S24	229	S23 not S22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 16:20
S25	68	(impact\$3 collid\$3 crash\$3) near2 (barrier obstacle stop) near4 (intentionally intended)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 16:22
S26	23	(push\$3) near2 (barrier obstacle stop) near4 (intentionally intended)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 16:31
S27	2	"5211115".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 16:34
S28	11	("3870939"   "3941202"   "3974778"   "4245715"   "4284160"   "4288121"   "4520889"   "4613804"   "5036935").PN. OR ("5211115"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/18 16:34

S29	130	(stop\$4) with vehicle with after with impact	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 16:48
S30	1	(runaway (run adj away)) with vehicle with after with (impact collide collision)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/18 17:26
S31	2818	(104/249 180/168 701/50).ocls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/19 12:40
S32	48	S31 and ((barrier stop obstacle) near4 (impact\$3 collide\$3 crash\$3 (run\$4 adj (into against))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/19 12:42
S33	0	S31 with (robust) same (automat\$3 autonomous unman\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/19 12:49
S34	0	S31 with (robust)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/19 12:49
S35	23	S31 and ((traction tractive) near5 (limit value threshold)) with (speed velocity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/19 12:50

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
-------	------	--------------	-----	------------------	---------	------------

L1	0	((((traction tractive) and (limit value threshold)) and (vehicle) and (collision) and intention\$4 and obstacle).clm.	USPAT; UPAD	OR	ON	2009/08/20 14:24
L2	2	((((traction tractive) and (limit value threshold)) and (vehicle) and (collision) and intention\$4 and obstacle) and (701/50 104/249 180/168).ccls.	USPAT; UPAD	OR	ON	2009/08/20 14:24
L3	0	(((((traction tractive) and (limit value threshold)) and (vehicle) and (collision) and intention\$4 and obstacle) and (701/50 104/249 180/168).ccls.).clm.	USPAT; UPAD	OR	ON	2009/08/20 14:25

8/ 20/ 2009 2:28:04 PM

C:\ Documents and Settings\ skong\ My Documents\ EAST\ Workspaces\ 20080523  
10550605 Arrangement in connection with unmanned mine V update 20090817.wsp